



U.S. Department
of Transportation

Research and
Special Programs
Administration

JUL 20 1998

400 Seventh Street, S.W.
Washington, D.C. 20590

DOT-E 11565
(SECOND REVISION)

EXPIRATION DATE: JUNE 30, 2000

(FOR RENEWAL, SEE 49 CFR SECTION 107.109)

1. **GRANTEE:** C.P.F. Dualam (USA) Inc., Gatesville, Texas
2. **PURPOSE AND LIMITATIONS:** This exemption authorizes the manufacture, marking and sale of a non-DOT Specification cargo tank motor vehicle described in paragraph 7. below for use in the transportation in commerce of certain hazardous materials described in paragraph 6 below. This exemption provides no relief from any regulation other than as specifically stated.
3. **REGULATORY SYSTEM AFFECTED:** 49 CFR Parts 106, 107 and 171-180.
4. **REGULATIONS FROM WHICH EXEMPTED:** 49 CFR Sections 178.345 and 178.348 described in paragraph 7.a.3.
5. **BASIS:** This exemption is based on the application of C.P.F. Dualam (USA) Inc. dated June 10, 1998 submitted in accordance with 49 CFR 107.109.
6. **HAZARDOUS MATERIALS (49 CFR 172.101):**

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Corrosive liquids, n.o.s.	8	UN 1760	I
Corrosive liquids, flammable, n.o.s.	8	UN 2920	I,II
Waste, corrosive liquids, n.o.s.	8	UN 1760	I
Waste, corrosive liquids, flammable, n.o.s.	8	UN 2920	I,II

* Note: Other class 8 materials are authorized under this exemption provided they are compatible with the corrosion liner of the cargo tank described below, as determined by the chemical resistance chart supplied by the resin supplier.

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7. PACKAGING and SAFETY CONTROL MEASURES:

a. PACKAGING:

(1) Packaging prescribed is a non-DOT specification fiberglass reinforced plastic (FRP) cargo tank motor vehicle having a nominal capacity of 5500 U.S. gallons, an inside diameter of 60-inches, and which is designed for an internal pressure of 35 psig and an external pressure of 15 psig. The cargo tank motor vehicle must be constructed in accordance with C.P.F. Dualam Inc. drawings CPF-95-101 (Rev.1), CPF-95-102 (Rev.1), and CPF 95-103 (Rev.1), each dated 3/12/96; engineering calculations and test results; quality assurance requirements for production; and other information submitted with the application and on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).

(2) Tanks must be in conformance with 49 CFR 173.243, as prescribed in the Hazardous Materials Table, 172.101.

(3) The FRP cargo tank motor vehicle must be in full compliance with DOT Specification DOT-412 (49 CFR 178.345 and 178.348) except as follows:

(a) 178.345-2 Material and material thickness. Does not apply.

(b) 178.345-3 Structural integrity. References to the ASME Code do not apply. The physical properties of the FRP being employed must be used in calculating design stresses, with a factor of safety of at least ten.

© 178.345-4 Joints. Does not apply.

(d) 178.345-7 Circumferential reinforcements. Does not apply. However, circumferential reinforcement must be at least equivalent to that specified for steel and aluminum.

(e) 178.345-14(b) Nameplate. Requirements are changed as follows:

(i.) line (1), the DOT Specification number is replaced by the exemption number, DOT-E 11565.

(ii.) lines (10), (13) and (14) are not required.

(f) 178.345-15 Certification. Manufacturer's certification documents must be modified appropriately to reflect compliance with the terms of this exemption.

(g) 178.348-1 General requirements. Except for paragraphs (ii), (iv), (v), (vi) and (vii), subsection (e) does not apply.

(h) 178.348-2 Material and thickness of material. Does not apply.

(i) 178.348-10 Pressure relief. Paragraph (c)(3) does not apply.

b. TESTING - The non-DOT specification cargo tank motor vehicle must comply with all test requirements of Sections 178.345 and 178.348, and must meet all applicable requirements for periodic testing and inspection of Part 180 Subpart E for DOT-412 Specification cargo tank motor vehicles except that the internal and external visual inspections, leakage test, pressure retest and lining test (if the tank is lined) must be performed annually. In addition to those items required to be examined during the visual inspections contained in 180.407(d) and (e), the visual inspections shall include looking for cracks, delaminations, gouges, debonding at saddles and deterioration of the liner, if provided. Copies of test results shall be maintained by the owner and the manufacturer for as long as the cargo tank remains in service; the manufacturer shall perform analyses of such test results and report finding to OHMEA at the time of any request for renewal of this exemption.

c. OPERATIONAL CONTROLS:

(1) The compatibility of commodities and the FRP cargo tank shall be based on ASTM C 581 "Standard Test Method for Chemical Resistance of Thermosetting Resins Used in Glass Fiber Reinforced Structures". Test reports must be maintained by the owner or manufacturer for as long as the cargo tank remains in service.

(2) Any repair to the cargo tank motor vehicle not affecting its structural integrity must be made in accordance with the manufacturer's recommendations. Any repair which does affect structural integrity must be made by the manufacturer. After repairs to the tank, it must be retested hydrostatically at one and one-half times the design pressure. A record of repairs made and testing performed must be maintained by the manufacturer for as long as the cargo tank remains in service.

8. SPECIAL PROVISIONS:

a. Offerors for transportation of the hazardous materials specified in this exemption may use the packaging described in this exemption for the transportation of such hazardous materials provided no modifications or changes are made to the packages, all terms of this exemption are complied with, and a copy of the current exemption is maintained at each facility from which such offering occurs.

b. Shippers using the packaging covered by this exemption must comply with all provisions of this exemption, and all other applicable requirements contained in 49 CFR Parts 171-180.

c. MARKING - Each cargo tank must be plainly marked on the right side near the front, in letters two inches high on a contrasting background, "DOT-E 11565".

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle.10. MODAL REQUIREMENTS: A copy of this exemption must be carried aboard each motor vehicle used under the terms of this exemption.11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. Section 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, Parts 171-180.
- o Registration required by 49 CFR 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in 49 CFR 171.8 who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by 49 CFR 172.700 through 172.704.


No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS:

a. The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under this exemption.

b. Any cracks, delaminations, gouges, debonding or liner deterioration found during visual inspections that could substantially reduce the structural integrity of the cargo tank must be reported to the AAHMS.

Issued at Washington, D.C.


Alan I. Roberts
Associate Administrator
for Hazardous Materials Safety

7/20/58
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, Washington, DC 20590-0001, Attention: Docket Section, 202-366-5046.

Dist: FHWA
PO: sln